Boone County, West Virginia
Table H.--Engineering Index Properties

Print date: 06/13/2002

(Absence of an entry indicates that the data were not estimated.)

Map symbol	Depth	 USDA texture	Classif	fication	Fragi	ments		rcentage sieve n			 Liquid	 Plas-
and soil name	_	1			>10	3-10	1				llimit	Iticitv
		i I	Unified 	AASHTO	inches	inches	4	10 	40 	200 		index
	In				Pct	Pct	'	'	'	' 	Pct	'
AqB:			! 	i I	 	 	 	 	 	 		
Allegheny	0-10	Loam	CL, ML	A-4	I 0	I 0	90-100	80-100	65-100	55-95	15-35	NP-10
, <u>.</u>		Clay loam, loam, sandy clay loam	CL, ML, SC, SM 	A-4, A-6	0 	0 	90-100 	80-100 	65-95 	35-80 	15-35 	NP-15
BSF:			 	İ	İ	' 	İ	İ		' 	İ	
Berks		Very channery loam	GC, GM, SC, SM	A-2, A-4	 	15-30 	40-80 	35-70 	30-60 	25-45 	25-36 	5-10
 		Channery loam, very channery loam, channery	SM	A-1, A-2, A-4 	 	0-30 	40-80 	35-70 	25-60 	20-45 	25-36 	5-10
	24-28	silt loam Weathered bedrock	 		 	 	 	 	 	 	 	
Shelocta			CL-ML, GM,	A-4	 	15-30	55 - 95	50-80	40-70	 36-65	15-35	NP-10
	3-57		CL, CL-ML, GC, SC	A-4, A-6	 	0-10 	 55-95 	 50-95 	 45-95 	40-90 	25-40 	4-15
 	57-65	loam Channery silt loam, channery silty clay loam, very channery clay loam	ML 	A-1-b, A-2, A-4, A-6	 	 0-15 	 40-85 	 35-70 	 25-70 	 20-65 	 20-40 	 3-20
Other Soils			 					 		 		
CeB:			 	1	 	 	 	l I	 	 	1	
Cedarcreek		Very channery	 GC	A-2, A-4, A-6	 	15-30	45-60	40 - 55	30-50	20-40	25-35	7-12
	3-65		 	A-2, A-4 	 	5-30 	30-55 	 25-50 	 20-45 	 15-40 	25-35 	7-12
Wet Minesoil			 					 	 	 		

Table H.--Engineering Index Properties--Continued

	 		Classif	icati	on		Fragments		Percentage passing sieve number					 Plas-
Map symbol and soil name	Deptn	USDA texture	l				 	3-10	: 	sieve n	umber		Liquid limit	
			 Unified	l A.	ASHTO			inches	4	10	40	200		index
	 In		 	' 			Pct	 Pct		' 	<u> </u>		Pct	!
		[I	1		1	
CgF: Cedarcreek		 Very channery loam	 GC	 A-2,	A-4,	A-6	 	 30 - 55	 45-60	 40 - 55	30-50	20-40	25-35	 7 - 12
			 GC	 A-2,	A-4			 5-30	 30 - 55	 25 - 50	20-45	15-40	 25 - 35	 7 - 12
		channery loam, very stony silt loam, very channery sandy loam	 	 				 	 	 	 	 	 	
Other Soils		 	 	 				 	 	 				
Rock Outcrop	0-60	 	 -	 A-1				 75-90	0-10	 0-5	0-5	0		 NP
Ch:		 	 	 				 	 	l I	 		1	
Chagrin	0-10	_	CL-ML, ML,	A-4 			0	0 	95 - 100	85 - 100 	55-85 	35 - 55	15-25 	NP-5
		Silt loam, loam, sandy loam	ML, SM 	A-2,	A-4,	A-6	0	0 	90-100 	75-100 	55-90 	30-80	20-40	NP-14
		Stratified gravelly fine sand to silt loam	ML, SM, SP-SM 	A-2,	A-4		0	0 	75-100 	65-100 	40-85 	10-80 	20-40 	NP-10
Holly			 	 				 	 	 				
		Į.		ļ				ļ		ļ.		1	1	<u> </u>
DPF: Dekalb	 0-3		 CL-ML, GM, ML, SM	 A-1,	A-2,	A-4	 	 15-30 	 50-90 	 45-80 	 40-75 	 20-55	10-32	 NP-10
		Channery sandy loam, channery loam, very channery sandy loam	GC-GM, GM, ML, SM	A-1, 	A-2,	A-4	 	5-40 	50-85 	40-75 	40-75 	20-55 	15-32 	NP-9
		Unweathered bedrock 	 	 			 	 	 	 		 	 	

Table H.--Engineering Index Properties--Continued

Map symbol	 Depth	 USDA texture	Classif	icatio	on		i	ments		rcentag sieve n			 Liquid	
and soil name		 	 Unified	 A <i>I</i>	ASHTO		>10 inches	3-10 inches		10	40	200	limit 	ticity index
	In	<u> </u>	'				Pct	Pct	<u> </u>	¦	<u> </u>	¦	Pct	
Pineville	 0-3 	 Very channery loam	 CL-ML, ML, SC-SM, SM	A-2,	A-4		 	 15-30 	 55-90 	 50-85 	 45-80 	 30-75 	 25-35 	4-10
		Channery loam, channery clay loam, very channery loam	CL, CL-ML, SC, SC-SM 	A-2, 	A-4,	A-6	 	0-10 	55-85 	50-80 	45-75 	30-65 	25-40 	6-15
	55-65 	Very channery loam, very channery clay loam, very channery sandy loam	GC-GM, SC, SC-SM 	A-1, 4, 4 		A-	 	5-20 	35-75 	30-70 	25-65 	20-60 	12-25 	4-12
Guyandotte	0-10		CL-ML, GC-GM,	A-1,	A-2,	A-4	 	20-50	25-65	20-60	15-55	10-55	20-30	NP-8
	10-65	Very channery	CL-ML, GC-GM, ML, SC-SM 	A-1, 	A-2,	A-4	 	5-35 	25-65 	20-60	15-55 	10-55 	20-30	NP-8
Other Soils	 	 	 	 			 	 	 					
FvF: Fiveblock		 Very channery sandy loam	 GC-GM, GM, SC-SM, SM	 A-1, 	A-2		 	 30-55 	 55-70	 50-65 	 35-50	 10-25	 15-25	 NP-7
	4-65 	Extremely channery sandy loam, very stony sandy loam, very channery sandy loam	SC-SM, SM 	A-1, 	A-2		 	5-30 	45-65 	25-50 	15-35 	10-20 	15-25 	NP-7

Table H.--Engineering Index Properties--Continued

Map symbol	 Depth USDA texture 		Classif	Classification			Percentage passing sieve number				 Liquid	
and soil name		 	 Unified	AASHTO		3-10 inches	 4 	10	40	200	limit 	ticity index
	In		' 		Pct	Pct	' 	' 	' 	' 	Pct	'
GwE:		İ	İ	İ	İ	İ	İ	 		i	i	İ
Gilpin 	1-30	Silt loam Channery loam, channery silt loam, silty clay loam	CL, CL-ML,	A-4, A-6 A-6, A-2, A-4 								4-15 4-15
	30-36	Channery loam, Channery loam, very channery silt loam, very channery silty clay loam	 	A-1, A-2, A- 4, A-6 	 	0-35 	 25-55 	 20-50 	 15-45 	15-40 	20-40	4-15
	36-40	Unweathered bedrock		 	 	 	 	 	 		 	
Wharton	2-44		CL, ML 	A-4, A-6 A-6, A-7 	 		95-100 75-100 				20-60 35-45 	4-15 10-25
	44-48	Weathered bedrock	 		 	 	 	 	 			
Other Soils		 	 	 	 	 	 	 	 			
ImE: Itmann	0-9	 Channery loam	 CL, ML, SC, SM	 A-2, A-4	 	0-10	 65-85	 60-80 	 50-75	30-60	120-30	 NP-8
		 Very channery sandy loam, very channery loam, extremely channery sandy loam	GC-GM, GM 	A-1, A-2 	 	0-15	30-55 	 25-50 	 20-45 	10-35	15-25 	NP-7

Table H.--Engineering Index Properties--Continued

Map symbol	Depth	 USDA texture	Classif:	ication	_ i	ments		rcentage sieve n	e passinumber	ng	-	 Plas-
and soil name		 	Unified	 AASHTO		3-10 inches	 4	10	40	200		ticity index
	In	'	'	<u> </u>	Pct	Pct	' !	' !	<u> </u>		Pct	
ItF:		 	 	 			 	 	 	 		
		Extremely channery sandy loam		A-1, A-2 		0-10 	40-55 	35-50 	25-45 	15-35 	15-25 	NP-7
		Very channery sandy loam, very channery loam, extremely channery sandy loam	 	A-1, A-2		0-15	30-55	25-50 	20-45 	10-35	15-25 	NP-7
Ka:		 		 			 	! 		 		
Kanawha	10-42	Loam, sandy clay loam,	CL, CL-ML, ML CL, ML, SC, SM		0 6 0		•				20-35 20-40	
	42-65		 CL, ML, SC, SM 	 A-2, A-4, A- 	6 0	 0 	 60-100 	 55-100 	 40-95 	 20-60 	20-35 	2-12
Kc:		 		 			 	! 		 		
Kanawha 	10-42	Loam, sandy	CL, CL-ML, ML CL, ML, SC, SM		0 0 0		•				20-35 20-40 	
	42-65	-	CL, ML, SC, SM 	A-2, A-4, A- 	6 0	0 	60-100 	55-100 	40-95 	20-60 	20-35 	2-12
Urbanland	0-6	 	 	 			 	 		 		
Other Soils				 			 	 		 		
KeB: Kaymine		 Very channery	 GC	 A-2, A-4, A-	6	1 15-30	 45-60	 40-55	 30-50	 20-40		 7-12
	5-65	loam Extremely channery loam, very stony silt loam, very channery loam	 	 A-2, A-4, A- 	6	 5-30 	 30-55 	 25-50 	 20-45 	 15-40 	 25-35 	 7-12

Table H.--Engineering Index Properties--Continued

Map symbol	l Depth	USDA texture	Classif	icati	on		Fragr	ments			e passi umber		 Liquid	 Plas-
and soil name		 	Unified	 A	ASHTO		>10 inches		4	10	40	200	limit	ticity index
	 In			¦			Pct	Pct		<u> </u>	¦		Pct	
Wet Minesoil	 	 						 	 					
KmF:			I						l	1			1	
Kaymine		Very channery loam	Ì	A-2,	,			İ	I	i	30-50 	İ	25-35 	7 - 12
		Extremely channery loam, very stony silt loam, very channery loam	 	A-2,	A-4,	A-6	 	5-30 	30-55 	25-50 	20-45 	15-40 	25-35 	7-12
Cedarcreek		Very channery	GC	A-2,	A-4,	A-6	 	 30-55 	 45-60	140-55	30-50	20-40	25-35	7-12
	3-65 	•	 	A-2,	A-4		 	5-30	 30-55 	25-50 	20-45	15-40 	25-35 	7-12
Other Soils														
Dekalb		Very channery sandy loam	CL-ML, GM, ML, SM	A-1,	A-2,	A-4		15-30	 50-90	145-80	40-75	20-55	10-32	NP-10
	3-24	Channery sandy loam, channery loam, very channery sandy	GC-GM, GM, ML, SM 	A-1, 	A-2,	A-4	 	 5-40 	 50-85 	40-75 	40-75 	20-55 	15-32 	NP-9
	24-28	loam Unweathered bedrock	 	 			 	 	 					
KrF:			! [i			 	 	 		1			
Kaymine		Very channery	GC	A-2,	A-4,	A-6	 	30 - 55	45-60 	40-55 	30-50 	20-40	25-35	7-12
	5-65 	•	 	A-2,	A-4,	A-6	 	5-30 	30-55 	25-50 	20-45 	15-40 	25-35 	7-12
Other Soils									 					
Rock Outcrop	0-60													

Table H.--Engineering Index Properties--Continued

		!	Classi	fication		Fragi	ments		_	e passin		1	
Map symbol and soil name	Depth	USDA texture		1		1	3-10	:	sieve n	umber		Liquid limit	Plas-
and soll name	 	 	 Unified	AASHT	O	>10 inches		4	10	40	200		ticity index
	 In 	 	 	_		 Pct 	 Pct 	 	' 	 	 	 Pct 	
LdE:	 	 	 	 		 	 	 	 	 	 		
Lily	4-30	Clay loam,	CL-ML, ML CL, ML, SC, SM	A-4 A-4, A-6		 						15-35 15-35 	
	30-34	Unweathered bedrock	 								 		
Dekalb		Channery sandy loam	CL-ML, GM, ML, SM	A-1, A-2	, A-4	 	0-30	 50-90 	45-80 	40-75 	 20-55 	10-32	NP-10
	 	Channery sandy loam, channery loam, very channery sandy loam	ML, SM	A-1, A-2	, A-4	 	5-40 5-40 	50-85 	40-80 	40-75 	20-55 	15-32 	NP-9
	24-28	Unweathered bedrock	 			 	 	 	 	 	' 		
Other Soils	 		 				 	 	 	 	 		
PnE: Pineville	 0-3	· -	CL-ML, ML,	 A-2, A-4		 	 0-10	 60-80	 55-75 	 50-70 	 30-65		 4-10
	 	Channery loam, channery clay loam, very channery loam	CL, CL-ML, SC, SC-SM	A-2, A-4	, A-6	 	0-10	55-85 	50-80 	45-75 	30-65 	25-40	6-15
	42-65 	Channery Toam Very channery loam, very channery clay loam, very channery sandy loam	GC-GM, SC, SC-SM 	A-1, A-2 4, A-6 	, A-	 	5-20 	35-75 	30-70 	 25-65 	 20-60 	12-25 	4-12
Lily			 CL-ML, ML CL, ML, SC,	A-4 A-4 A-6		 						 15-35 15-35	
			SM SM	A=0		 				 			
	30-34	Unweathered bedrock	 				 			 			
Other Soils	 												

Table H.--Engineering Index Properties--Continued

Map symbol	 Depth	 USDA texture	Classif:	ication	Fragi	ments		rcentage sieve n		 Liquid	 Plas-	
and soil name	 	 	 Unified	'		3-10 inches	'	10	40		limit 	ticity index
	 In	 	 	 	 Pct	 Pct	 	 	 	 	Pct	
Po: Potomac	0-7		 CL-ML, ML, SC-SM, SM	 A-2, A-4	 	0-10	 85-100	 80-100	 50-85	 30-60	15-20	 NP-5
	 		GM, GW-GM, SM, SW-SM 	 A-1, A-2 	 	 15-50 	 50-80 	 35-70 	 20-50 	 5-25 	15-15 	 NP-3
Holly	 	 	 	 	 	 	 	 	 	 		
SeB: Sensabaugh	7-11 	 Loam Gravelly loam, gravelly clay loam, gravelly silty clay loam Gravelly loam,	GC, SC-SM -	A-4, A-6 	 	2-18 	70-95 	55-90 	45-75 	35-65 	 16-29 20-35 	5-14
	 - - 40-65 - -	gravelly clay loam, gravelly silty clay loam Gravelly loam, gravelly clay loam, gravelly fine sandy loam	SC, SC-SM GC, GC-GM, SC, SC-SM	 	 	 5-30 	 55–90 	 25-75 	 25-65 	 20-55 	 20-36 	 6-15
Lobdell	8-24 24-65	Loam, silt loam	ML CL, CL-ML,	A-4	0 0 0 0	. 0	90-100	80-100	70 - 95	55 - 85	20-30 20-35 15-35	NP-10
Other Soils	 	 	 	 	 	 	 	 	 	 		
Holly	 	 	 	 	 	 	 	 	 	 	 	

Table H.--Engineering Index Properties--Continued

			Classi	fication	Fragi	ments	Pe	rcentag				
Map symbol	Depth	USDA texture			1			sieve n	umber		Liquid	Plas-
and soil name					>10	3-10					limit	ticity
			Unified	AASHTO	inches	linches	4	10	40	200		index
	 In	. I	 	I	l	Pct	 	<u> </u>		¦	Pct	
SwF:	 		1				 					
Sewell	0-6	Very channery	GC-GM, GM,	A-1, A-2		30-55	55-70	50-65	35-50	10-25	15-25	NP-7
		sandy loam	SC-SM, SM		1							
	6-65	Very channery	GC-GM, GM	A-1, A-2		5-30	30-50	25-45	15-35	10-20	15-25	NP-7
		sandy loam,			1							
		very stony			1							
		sandy loam,			1							
	l	extremely									1	1
		channery sandy			1							
		loam			1							
					1							
Ud:		İ	İ	İ	i	İ	İ	İ	İ	İ	İ	İ
Udorthents												
					I							
W:					I							
Water												
				I	I							
	l	.1			_	l	l	.	1	1	_ I	l